1. (Currently Amended) A method, comprising:

    installing a program onto a target machine, the program having intermediate

    representation;

    executing the program using the intermediate representation and an initial profile

    data; and

    generating a current profile data;

    comparing the current profile data with the initial profile data; and

    ~~responsive to a change in profile data collected while the program executes which~~

    ~~exceeds a predetermined threshold, recompiling the program while the~~

    ~~target machine is idle.~~

    recompiling the intermediate representation to optimize the program when the

    current profile data in comparison with the initial profile data has

    exceeded a predetermined threshold.

2. (Currently Amended) The method of claim of claim 1, wherein ~~said~~ installing

    further comprises:

    installing a continuous compiler;

    installing a runtime monitor;

    copying ~~an~~ the intermediate representation ~~of a source file~~ to the target machine;

    building ~~a~~ the initial profile ~~database~~ data; and

compiling the intermediate representation to create an executable file.

3.   (Currently Amended) The method of claim 1, wherein ~~said~~ executing further

comprises:

running an executable version of the program;

collecting samples of process information at a controlled rate; and

while the target machine is idle, generating binary level and high level profiles.

4.   (Currently Amended) The method of claim 1, wherein recompiling further

comprises customizing compiler optimizations based on <u>the current</u> profile data

generated during program execution.

Claims 5-10 (Cancelled)

11.   (Currently Amended) A ~~computer readable~~ <u>machine-readable</u> medium having

stored thereon data representing sequences of instructions, the sequences of

instructions which, when executed by a ~~processor~~ <u>machine</u>, cause the ~~processor~~

<u>machine</u> to ~~perform the steps of~~:

installing a program onto a target machine<u>, the program having intermediate</u>

<u>representation</u>;

executing the program <u>using the intermediate representation and an initial profile</u>

<u>data</u>; ~~and~~

<u>generating a current profile data;</u>

<u>comparing the current profile data with the initial profile data; and</u>

~~responsive to a change in profile data collected while the program executes which~~

~~exceeds a predetermined threshold, recompiling the program while the~~

~~target machine is idle.~~

recompiling the intermediate representation to optimize the program when the

current profile data in comparison with the initial profile data has

exceeded a predetermined threshold.

12.   (Currently Amended) The ~~computer-readable~~ machine-readable medium of claim

of claim 11, wherein ~~said~~ installing further comprises:

installing a continuous compiler;

installing a runtime monitor;

copying ~~an~~ the intermediate representation of ~~a source file~~ to the target machine;

building ~~a~~ the initial profile ~~database~~ data; and

compiling the intermediate representation to create an executable file.

13.   (Currently Amended) The ~~computer-readable~~ machine-readable medium of claim

11, wherein ~~said~~ executing further comprises:

running an executable version of the program;

collecting samples of process information at a controlled rate; and

while the target machine is idle, generating binary level and high level profiles.

14.   (Currently Amended) The ~~computer-readable~~ machine-readable medium of claim

11, wherein recompiling further comprises customizing compiler optimizations

based on the current profile data generated during program execution.

Claims 15-20 (Cancelled)

21.   (Currently Amended) A system, comprising:

        a target machine having a storage device, the storage device having stored therein

                a routine for transparent continuous compilation; and

        a processor coupled ~~to~~ with the storage device ~~which when executing the routine:~~,

                the processor to:

                ~~installs~~ install a program onto ~~a~~ the target machine, the program having

                        intermediate representation and a continuous compiler;

                ~~executes~~ execute the program using the intermediate representation and an

                        initial profile data; ~~and~~

                generate a current profile data;

                compare the current profile data with the initial profile data; and

                ~~responsive to a change in profile data collected while the program~~

                        ~~executes which exceeds a predetermined threshold, recompiles the~~

                        ~~program while the target machine is idle.~~

                recompile the intermediate representation to optimize the program when

                        the current profile data in comparison with the initial profile data

                        has exceeded a predetermined threshold.

22.   (Currently Amended) The system of claim of claim 21, wherein ~~said~~ installation

further comprises:

installing a continuous compiler;

installing a runtime monitor;

copying ~~an~~ the intermediate representation ~~of a source file~~ to the target machine;

building ~~a~~ the initial profile ~~database~~ data; and

compiling the intermediate representation to create an executable file.

23.   Currently Amended) The system of claim 21, wherein ~~said~~ execution further

comprises:

running an executable version of the program;

collecting samples of process information at a controlled rate; and

while the target machine is idle, generating binary level and high level profiles.

24.   (Currently Amended) The system of claim 21, wherein recompilation further

comprises customizing compiler optimizations based on the current profile data

generated during program execution.

Claims 25-30 (Cancelled)

31.   (New) An apparatus, comprising:

a storage medium,

a processor coupled with the storage medium, the processor to:

install a program onto the target machine, the program having

intermediate representation;

execute the program using the intermediate representation and an initial

profile data;

generate a current profile data;

compare the current profile data with the initial profile data; and

recompile the intermediate representation to optimize the program when

the current profile data in comparison with the initial profile data

has exceeded a predetermined threshold.

32. (New) The apparatus of claim of claim 31, wherein installation further comprises:

installing a continuous compiler;

installing a runtime monitor;

copying the intermediate representation to the target machine;

building the initial profile data; and

compiling the intermediate representation to create an executable file.

33. (New) The apparatus of claim 31, wherein execution further comprises:

running an executable version of the program;

collecting samples of process information at a controlled rate; and

while the target machine is idle, generating binary level and high level profiles.

34. (New) The apparatus of claim 31, wherein recompilation further comprises

customizing compiler optimizations based on the current profile data generated

during program execution.